

Remarks

In the Office Action dated May 22, 2003, the Examiner objected to the drawings. The Examiner rejected claims 1-9, 11-20 and 20-26 under 35 U.S.C. § 112, first and second paragraphs. The Examiner rejected claims 1-4, 6-15 and 7-22 under 35 U.S.C. § 102 as being anticipated by the U.S. Patent to Seshia, et al. 6,250,156.

By this Amendment, Applicants' Attorney has amended each of the independent claims of the application to make it clearer that the claimed micromechanical filter apparatus includes a first resonator having a first resonance frequency, a second resonator and means for coupling the resonators so that the filter apparatus has a filter response in a sense mode with a substantially constant amplitude region for a passband of frequencies which includes the first resonance frequency in the sense mode. Clearly, this feature is neither taught, disclosed or discussed by any of the art of record including the U.S. Patent to Seshia, et al. For example, the method and system of Seshia, et al. has nothing to do with the filter-based method and system of the present invention. The Seshia, et al., coupling system does not couple its resonators to obtain a filter apparatus as now claimed. In Seshia, et al., both resonators are driven in an anti-phase mode and the Coriolis force makes both resonators vibrate in anti-phase to each other. This prevents the gyroscopic sensor of Seshia, et al. from working as a filter apparatus as now claimed. Because the resonators in Seshia, et al. are only being driven in the anti-phase mode, only a single peak can be obtained in the frequency domain not a filter spectrum or passband as now claimed. Only with the present invention does a passband of frequencies include the first resonance frequency in the sense mode.

Old claims 23-26 have been canceled and new claims 27-30 have been added without adding any new matter.

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Consequently, in view of the above and in the absence of better art, Applicants' attorney respectfully submits the application is in condition for allowance which allowance is respectfully requested.

Respectfully submitted,

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